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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/532,685	04/26/2005	Takashi Saitoh	7412/84326	4377	
42798 75	42798 7590 11/28/2006			EXAMINER	
FITCH, EVEN, TABIN & FLANNERY			NGUYEN, TRI V		
P. O. BOX 1841 WASHINGTON	- -		ART UNIT	PAPER NUMBER	
,			1751		
			DATE MAILED: 11/28/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/532,685	SAITOH, TAKASHI
Office Action Summary	Examiner	Art Unit
	Tri V. Nguyen	1751
The MAILING DATE of this communication app Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 13 Se	eptember 2006.	
2a) ☐ This action is FINAL . 2b) ☒ This	action is non-final.	
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.
Disposition of Claims		
4) ☐ Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) 2,11-13 and 15-21 is/ 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-10 and 22-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	are withdrawn from consideration	1.
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 08/06, 12/05, 04/05.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of the invention of Group I and formula (5) where R10 is a methoxy, R11 is a sulfonic acid, R12 is a hydrogen and R13 is a hydrogen corresponding to claims 1, 3-10, 14-15 and 22-25 in the reply filed on September 13, 2006 is acknowledged. The traversal is on the ground(s) that there was a lack of undue burden since an ISR was provided. This is not found persuasive because the examiner is not bound by a previous prosecution.

The requirement is still deemed proper and is therefore made FINAL.

The examiner remarks an inaccuracy in the election of species requirement within group I as the compound polyethylene dioxythiophene polystyrene sulfate of claim 15 is a specie of the polymer of group I and thus is included as one of the member in the election of the formula. Therefore, the present office action is directed to claims 1, 3-9, 14 and 22-25.

Information Disclosure Statement

2. The information disclosure statement filed on December 14, 2005 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because a translation was not provided for the JP 5-504153 and JP 5-503953 references. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

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Priority

3. Certified copy of the translated foreign priority documents are requested for determining the priority of the claimed invention. The present office action indicates the various rejections based on the current possible priority.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 3 recites "high molecular weight compound" in lines 2-3. It is unclear as to the claimed limitation of "high molecular weight" as a numerical range or cutoff is not shown (how high is high? 10,000? 100,000?).

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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6. Claims 1, 3 and 22-25 are rejected under 35 U.S.C. 102(a) as being anticipated by Carroll et al. (US 2002/0161101).

Carroll et al. disclose an electroconductive composition obtained by dissolving PVDF and HFP in N,N-dimethylacetamide, stirring the solution, adding MWNT followed by sonication (page 5, parag. 65). The resulting solution is then drop cast as a film on a substrate heated at 120° C (page 5, parag. 66).

Regarding claim 3, the molecular weights of the polymers are approximately 50,000 and 500,000.

Accordingly, the teachings of Carroll et al. anticipate the material limitations of the present claims.

7. Claims 1, 8 and 22-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Glatkowski et al. (US 2003/012111).

Glatkowski et al. disclose a composition obtained by mixing a polymer such as polyimide with nanotubes in solvent followed by stirring and sonication. The resulting solution is casted as an electrically conductive film on a substrate and dried by imparting heat (page 4, parag. 52-53 and page 7, parag. 88-89).

Regarding claim 8, the polyimide polymer has inherently water-soluble properties.

Accordingly, the teachings of Glatkowski et al. anticipate the material limitations of the present claims.

8. Claims 1 and 22-25 are rejected under 35 U.S.C. 102(a)/(e) as being anticipated by Eikos, Inc. (WO 03/013199).

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Eikos, Inc. discloses a composition comprising a solvent, a polymeric matrix and carbon nanotubes (abstract and page 10, lines 7-19). The composite obtained by mixing and sonication is applied as a coating to a substrate and dried to remove the solvent (page 11, lines 4-11 and page 17, lines 5-15).

Accordingly, the teachings of Eikos, Inc. anticipate the material limitations of the present claims.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Glatkowski et al. (US 2003/012111).

Glatkowski et al. disclose the composition of claim 1 but do not explicitly disclose the presence of a surfactant. Although Glatkowski et al generally teaches the inclusion of surfactant in their composition (page 4, parag. 61), the reference does not require the component(s) with sufficient specificity to constitute anticipation.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to have formulated a composition, as taught by Glatkowski et al, which contained surfactant in the claimed amounts disclosed and taught by Glatkowski et al. therefore, one of ordinary skill in the art would have had a reasonable expectation of success, because such a composition containing a surfactant component is expressly suggested by the Glatkowski et al

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disclosure and therefore is an obvious formulation.

11. Claims 4-5, 8-10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carroll et al. as applied to the claims above, and further in view of Mitsubishi Rayon Co LTD (JP 2002-140930, hereon referred to as Mitsubishi '930 – a machine translation is currently provided with the certified translation being performed).

Carroll et al. disclose the composition of claim 1 but do not explicitly disclose the presence of a surfactant, a basic compound and a conducting polymer of formula (5).

In an analogous art, Mitsubishi '930 disclose a composition with the water-soluble conducting polymer of formula (5) (page 4), a high molecular weight component (page 7, parag. 28), a surfactant (page 8, parag. 31) and a basic compound (page 8, parag. 34).

It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose, see *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

Regarding claim 14, any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show the same process of making, see *In re Brown*, 173 USPQ 685 and *In re Fessmann*, 180 USPQ 324.

12. Claims 4, 8-10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carroll et al. as applied to the claims above, and further in view of Mitsubishi Rayon Co LTD (JP

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2000-219739, hereon referred to as Mitsubishi '739 – a machine translation is currently provided with the certified translation being performed).

Carroll et al. disclose the composition of claim 1 but do not explicitly disclose the presence of a basic compound and a conducting polymer of formula (5).

In an analogous art, Mitsubishi '739 disclose a composition with the water-soluble conducting polymer of formula (5) (page 6, parag. 29-30 and page 12, parag. 59) and a basic compound (page 9, parag. 39-40).

It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose, see *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

Regarding claim 14, any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show the same process of making, see *In re Brown*, 173 USPQ 685 and *In re Fessmann*, 180 USPQ 324.

13. Claims 3-5, 9-10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glatkowski et al. as applied to the claims above, and further in view of Mitsubishi Rayon Co LTD (JP 2002-140930, hereon referred to as Mitsubishi '930 – a machine translation is currently provided with the certified translation being performed).

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Glatkowski et al. disclose the composition of claim 1 but do not explicitly disclose the presence of a high molecular weight compound, a basic compound and a conducting polymer of formula (5).

In an analogous art, Mitsubishi '930 disclose a composition with the water-soluble conducting polymer of formula (5) (page 4), a high molecular weight component (page 7, parag. 28), a surfactant (page 8, parag. 31) and a basic compound (page 8, parag. 34).

It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose, see *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

Regarding claim 14, any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show the same process of making, see *In re Brown*, 173 USPQ 685 and *In re Fessmann*, 180 USPQ 324.

14. Claims 4, 9-10 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Glatkowski et al. as applied to the claims above, and further in view of Mitsubishi Rayon Co LTD (JP 2000-219739, hereon referred to as Mitsubishi '739 – a machine translation is currently provided with the certified translation being performed).

Glatkowski et al. disclose the composition of claim 1 but do not explicitly disclose the presence of a basic compound and a conducting polymer of formula (5).

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In an analogous art, Mitsubishi '739 disclose a composition with the water-soluble conducting polymer of formula (5) (page 6, parag. 29-30 and page 12, parag. 59) and a basic compound (page 9, parag. 39-40).

It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose, see *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

Regarding claim 14, any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to the applicant to establish that their product is patentably distinct, not the examiner to show the same process of making, see *In re Brown*, 173 USPQ 685 and *In re Fessmann*, 180 USPQ 324.

15. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Carroll et al. or Glatkowski or Eikos, Inc. as applied to claim 1 above, and further in view of Eikos, Inc. (WO 03/013199) and Search Report (Nguyen).

Carroll et al. or Glatkowski or Eikos, Inc. disclose the composition of claim 1 but do not explicitly disclose the inclusion of a silane coupling agent of formula (1).

In an analogous art, Eikos, Inc. discloses an electrically conductive composition with the compound of formula (5) (see table 2, page 19 and the search report showing the compound on page 2).

It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for

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the very same purpose, see *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

16. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Carroll et al. or Glatkowski or Eikos, Inc. as applied to claim 1 above, and further in view of Hsu (US 2004/0206942).

Carroll et al. or Glatkowski or Eikos, Inc. disclose the composition of claim 1 but do not explicitly disclose the inclusion of a colloidal silica component.

In an analogous art, Hsu discloses an electrically conductive composition with a colloidal component (page 5, parag. 71-72 and example 7, page 13).

It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose, see *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

Conclusion

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tri V. Nguyen whose telephone number is (571) 272-6965. The examiner can normally be reached on M-F 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas McGinty can be reached on (571) 272-1029. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

nvt

LORNAM DOUVEN
PRIMARY EXAMINED